Two Major Talks Here

The Caltech Y's first Leader of America, Right Reverend James A. Pike, Bishop of the Diocese of California of the Protestant Episcopal Church, will be on campus next Tuesday, Wednesday, and Thursday, February 13 to 15, to speak to Tech men on a variety of interesting subjects. All the events in which Pike will participate are open to everyone.

Tuesday

Pike's schedule calls for, as is customary, an exhausting round of speeches, discussions, and meals. He will begin his visit on Tuesday afternoon with lunch in Blacker House. He will then have his first informal discussion in the Lloyd House Conference room on the subject of "Radical Liberalism and the Right Reverend James A. Pike Center," at 4 p.m., followed by dinner in Dabney House and a public lecture to be given on Tuesday evening. "Religion, Science, and Technology," at 8:30 p.m. The evening will be followed by the exception at the home of Wes Hersey, at which attendance will be limited. Those interested should sign up in the Y office.

Wednesday

On Wednesday Pike will begin his lunch in Lloyd House; followed by office hours in the Lloyd House conference room until 3 p.m. Students are invited to visit and have an informal discussion on a personal level. This will be followed by a discussion in the conference room at 6 p.m. on the subject of "Family Planning." (Continued on Page 2)

Tonight Drama Club Reads Three Avant-Garde Plays

"Headings from the Modern Theatre," three creations by highly dissimilar avant-garde playwrights, will be presented by the Caltech Drama Club at 7:30 this evening in Dabney Hall lounge. Admission will be free.

The program will consist of two one-act plays, "The Death of Besse Smith" and "The Bald Soprano," and a short excerpts from the Broadway comedy, "A Thurber Carnival." These are under the direction of Mike Talcott, ex-Techem and Pasadena Playhouse graduate, who will also take part in one of the pieces.

Who Plays Besse?

Appearing in "The Death of Besse Smith" will be JPL mathematician Cathy Thomas, JPL Secretary Brenda Vacto, Talcott, and Techmen Barry Meritt, Bob Roberts, Bill Hogan and Jon Kelly. Says Talcott: "Edward Albee's "Besse Smith" is a cynical, biting picture of Southern realities. It leads to an astonishingly tradi- tional Southerner through a crisis in her views, in which she is able to awake from the night- mares of history which enmesh the deep South. Alice is a writer who would like to free man from neurotic and false commitments and allow him to be truly himself."

"All Right!"

Alexes Lippman, wife of alumnus and Drama Club proctor Pete Lippman, Irene Vaca, also in the cast of "Besse Smith," and Page man Jim Basstgertner will change the mood for a few minutes by submerging Dabney in a typical Thurberian farce: a stuffy executive decides to get rid of his wife so that he can marry his secretary, but meets with classical feminine resistance when he is too honest to attempt to hide his intentions from his wife. Sharing the spotlight with the actors are a stenographer, a shoed, and a monkey wrench.

"Bazan, Brasseres, Razoocha"

"Topochoo" student Lynn Vair, from JPL, Secretary Kathy Stark, who starred in the Club's presentation of "Camino Real" last Spring, and Alexis Lippman will play opposite Wayne Huber, Don Ellsow and Mike Lamp-tun in Eugene Ionesco's indescribably weird, hilarious, meaningless, and immoral contribu­ tion to the theatre of the absurd, "The Bald Soprano."

Talcott's mumbling comment on the meaning of the play was expressed in the words of one of the characters: "Groom the goose, don't goose the groom."

They Come, We Saw

Artists Spend Lively Weekend

BY J. C. SIMPSON

Last Friday the long-anticipated art students arrived at Caltech for a weekend of discussion and argument with Tech men. The weekend was largely uneventful, to be as eventful as possible for individual discussion in House lounges.

All the artists were very eager to discuss their outlook on art and science, and several Left with different opinions of the House lounges after dinner session late into the night. A very active and interesting discussion followed, in which the artists disagreed with each other as much as with Techmen. The conversation broke up about eleven, after which the artists and Techmen continued their work in Dabney Lounge. The group broke up about twelve, but Roy Owen held a discussion about his sculpture late into the night.

The artists left Sunday lunch, and not surprisingly after the responses the artists received, many Techmen expressed a serious interest in having them back next year.

Four Posts Lack Candidates In ASCIT Contest

Art Robinson and Larry Ba­ hler have been named for ASCIT president, while Tom Bopp is running unopposed for ASCIT vice-president. Other nominees are: secretary, Don O'Hara; treasurer, Jim Susawa; social chairman, Bob McEliece; athletic manager, Bob Lieber­ man; HC president, Larry Gerashwin.

Offices for which no nomi­ nations have been made are: Cal­ fornia Tech editor, ASCIT busi­ ness manager, and ASCIT mem­ ber before the deadline.

In other action at the BOD meeting, the deadline for applications for bursaries and certificates has been changed to tonight. Applications should be turned in to Jim Susawa, Dabney.

In addition, applications for New Student Council candidates will be accepted until tonight. They should be turned in to Bob Koh, Pages. Procrastinators are reminded that they are eligible for jobs as counselors.
There’s Still Time

We’ve heard comments on last week’s editorial on atmospheric testing that it was a bit too grand, and that there wasn’t time to write about it between Thursday and Saturday. There is time to write to President Kennedy on the issue of atmospheric testing so long as no tests have been conducted.

Both Congress and the military have been pressuring Kennedy to give the “go ahead” order, and the ponderous military establishment has been making possible continued arms production at lavish expense. Hence, it increases the necessity of transmitting as soon as possible your views on atmospheric testing.

At this juncture in international affairs, there is a full-blown crisis developing, making possible continued armament with inadequate safeguards. Resuming atmospheric testing will destroy these possibilities through adverse publicity shrouded in nothing else.

No arms race in history has ended in other than war. If we resume testing, we are increasing the likelihood of this end. Every armament of the military economy is designed to expand, and the military mind leads toward the purpose of the military: to fight.

Thus resuming atmospheric testing is not just an issue of international tension and the technical potential for global damage, but whether we are going to turn toward or away from a warlike posture.

President Kennedy said last September at the United Nations: “...in a spiraling arms race finally, national security may well be shrinking even as its arms increase.”

Columnist Marquis Childs says, “While the decision that must be taken—whether other issue, there is little evidence of public awareness or public opinion that might influence the outcome one way or another.”

We again urge you to write or wire President Kennedy.

—benson

African Statesmen Views

Forthcoming Free Kenya

BY JAY LIPPMAN

Kenya has struggled 37 years for independence from the British; now on February 14, Gikuyo Kiano will go to London to negotiate the date of independence and the nature of the new country. Dr. Kiano spoke to the International Cooperation Seminar Monday night on the issues, tasks, and prospects that face Kenya on the eve of independence.

Striking and Sinister

Dr. Kiano is a striking man. He was educated in the United States and received his Ph.D. in political science at Berkeley. He is presently a member of the Kenya’s legislative council. He is obviously a man of great dedication and ideology. He joked and was lightly satirical about his own political goals, but there seems to be no doubt about his serious devotion and dedication to Kenya independence and African nationalism.

No Apartheid-in-Reverse

There are several aspects to the general problem facing Kenya. Kiano emphasized strongly the need for a positive government to guarantee the basic human rights of the people.

Transition

The biggest problem facing Kenya and apartheid Africa in general is the transition from independence from rebels to citizens. “We were united against imperialism, against white supremacy, but what is going to keep us together now?” He expressed the need for a positive dedication and ideology. Two

(Continued on page 2)

LETTERS

Talcott Wants Othello At Tech

Editors:

I would like to attempt to bring to Caltech a theatre program similar to the Theatre Group’s at U.C.L.A. That is, a use of Institute facilities during finals weeks and vacation in order to bring theatre of professional caliber to the campus.

I submit that the Institute’s present expansion program is shrouded in great self-consciousness and desperation. The outside sensers a vague discontent about the Caltech campus; he senses frustration, despair, and cynicism; emotions indigenous to a prison; and they comprise an Institute whose motto is “The truth shall make you free.”

He wonders at the nonproductive waste of the highest intellectual and student body in the nation.

Broader Horizons?

Can we ameliorate this harsh situation? Can we face the very brutal facts of reality and change them? Is physical expansion without the corresponding intellectual broadening of enough? We must, all of us, face these questions in the coming months, for they comprise the very stuff of which the crisis of Caltech is made. It will take great courage to make Caltech into a very great visual center, for in doing so, old traditions must be discarded and the nebulous demands of the minorities must be crystallized into action.

The students and faculty in recent years have demanded greater and wider cultural activities. The Beckman Auditorium program was met with a great display of protest and much cultural activity within. The visiting art students represented a Californian culture which was little known outside air. Can we discern a trend in the coming months? We have the guts, administrators and administrators, to admit the need to change and to emancipate itself from the limitations of being a great world center of learning.

Wanted: Humanity

To become is a very great problem: it involves change, the hope of the conservatives: it involves an expression of needs in order to shape the form of change, it involves courage to make the necessary expression. I contend that the California Institute of Technology should be the only hope of existing as a healthy organism to seek its humanism and satisfy its great human potential.

I, as countless others, have been engaged in the past years in serving the human needs of the Institute. I have found myself capable of growth, and identity, and I am most grateful. I need the expansion and yet my fate seems inex- tricably bound to Calberton Hall and Caltech. I am not asking much—a use of Institute facilities during a normal period of dormancy, for what I feel will be to the deep good of the community. But I am asking.

I am trying to let you see my small way what I feel is a dis­astrous trend, and counter with something constructive.

“Othello”

I have not said anything brightly original—my condem­nation of the nature quo is by no means new—but at this crucial point in Institute his­tory a call to action is needed.

My plan will be to produce Shakespeare’s “Othello” at Caltech this spring vacation and possibly first week of third term with a professional cast. I have the full support and assistance of the Caltech Drama Club and Dr. Ricardo Gomez. All that I need is an administrative O.K.

Is the apathetic tor­por of Institute life voices of opinion be raised? Can we muster the strength to let our­selves be heard?

I urge that all interested par­ties centralize their viewpoints before dragging a brief note to Dean Paul Eaton on their feel­ings to my proposals, both the general one of Caltech’s pro­gressing towards a real univer­sity, and the specific one of hav­ing a production of “Othello” this spring at Calberton.

Mike Talcott

Bill Tivoli

Clearly South must not go down on the “Hand of Bridge” shown on page six of the Feb­ruary 1 California Tech. All he must do is play his trump and kick Goren in the seat of power. I am sure Dean Eaton was not so far in doubting—or figuring that since he had more cards than South, his partner more than North, force of numbers would prevail. This was Eaton’s psychology—but that is history.

Incidentally, your column is about the best I can remember the Tech having on bridge, so keep up the good work. It’s un­fortunately that errors like this have to creep in.

—Den Wilberg

California Tech

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Califor­nia Tech 1962

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UNITARIAN PUBLIC FORUM

THURSDAY, FEBRUARY 9, 1962

Fremont 9-9-9

GORDON R. PETERSON, Moderator

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First Unitarian Church, 1936 West 8th St., L.A.

Donation $1.00

Free Parking

1901 E. California Blvd. Mon.-Fri. 8-5

— Continued from page 1

Pike

(Continued from page 1)

Thursday

Thursday will begin with lunch in Riddock House, house officers, house mothers, medical students, Alumni Conference Room, and an infor­mal discussion on the “Movement for Church Unity.” This will be followed by dinner in Fleming and a lecture in Dayton Lodge, a talk on “The Future of Civilization.” After the talk there will be a reception in the home of Dr. Rodman Paul. Students who have arrived at this rec­ognition is also limited, important people should sign up at the Y office.
CHOICE

THE DEVIL'S EYE
at the Sunset Theater

Ingrid Bergman seems to feel it is his duty to explain the female sex to the beholder, much as Milton, in his modesty, chose to justify the ways of God to man. Bergman's efforts, on the whole, have been by far the more entertaining. "Smiles of a Summer Night," well-known wmnalnesia, may be the best movie comedy ever made. But from the middle of the film seems to have led downward: "Secrets of a Summer Night," and the two parts, but they were too far apart, allowing one to fall asleep in the middle. "The Devil's Eye" this unpromising trend continues.

STAY IN AN EYE

According to the subtitles, there is an Irish proverb that goes: "A fish is a fish, a man is a man. A woman's chastity is a sty in the devil's eye." Today the devil's eye is bothering him because of Britt-Marie (Bibi Anderson) is about to be married to her eighth husband. Was this an unheard-of event, to judge from the scenes in the background of the earlier film, and does it really imply a reduction in this thing still? Now in some of his films ("Wild Strawberries" for example) Bergman has managed to start with less story than this, but with a superb camera-work and psychological insight, and come up with a masterpiece. But this time, I'm afraid, he's strictly out to lunch. The photography is only good-average, the acting is faulty, and the whole thing is a farce. Why, I'm not unenlightened: to be honest, I still don't understand Bergman's reference, just what he first wanted, that is, and then won't. Most un-forgivable in his power is the comic material is mostly old stuff. The bedroom comedy is all reminiscent of his previous efforts, and goes like the jealousy husbands running around in their nightshirts are a bit older than that. May be there are a couple of laugh-out loud scenes, and a background score of a smile is always maintained; but from the maker of "Smiles of a Summer Night" and "The Seventh Seal" this is a parvum opus indeed. It seems to me that Bergman is just plain running out of things to say about the boudoir; perhaps now he'll return to metaphysics, this rather different subject in which he certainly is supreme.

The set in Keck has been burning with steadiness as the torch in the middle of the set. None of the residents even knew how to use the Materials. The theatre was opened, and as the audiences were admitted, the slides were installed in all of the graduate houses, and it was rumored that the money came from a group interested in eradicating all traces of study in the houses. And that it has.

BY FLETCH MURPHY

Perhaps it would be a good idea of the off-campus graduate student to make a sale or something to raise some more money. The average student, with his book-tubes installed in all of the graduate houses, and it was rumored that the money came from a group interested in eradicating all traces of study in the houses. And that it has.

The set in Keck has been burning with steadiness as the torch in the middle of the set. None of the residents even knew how to use the Materials. The theatre was opened, and as the audiences were admitted, the slides were installed in all of the graduate houses, and it was rumored that the money came from a group interested in eradicating all traces of study in the houses. And that it has.

Graduate Rattle

BY STEVE SCHWARZ

will, and finally, in what may be the least movie disappointment of the year, she won't after all. The ultimate revolting development is that meanwhile Don Juan (contrary to the very definitions of Don Juan) actually falls in love with her, and so the forces of evil are routed and virtue triumphs, which is certainly a dull way to end a movie.

FOG IS THIN STUFF

If you've ever seen this plot before on television or in a comic book or somewhere, you're probably right: it certainly is this stuff. Now in some of his films ("Wild Strawberries" for example) Bergman has managed to start with less story than this, but with a superb camera-work and psychological insight, and come up with a masterpiece. But this time, I'm afraid, he's strictly out to lunch. The photography is only good-average, the acting is faulty, and the whole thing is a farce. Why, I'm not unenlightened: to be honest, I still don't understand Bergman's reference, just what he first wanted, that is, and then won't. Most un-forgivable in his power is the comic material is mostly old stuff. The bedroom comedy is all reminiscent of his previous efforts, and goes like the jealousy husbands running around in their nightshirts are a bit older than that. May be there are a couple of laugh-out loud scenes, and a background score of a smile is always maintained; but from the maker of "Smiles of a Summer Night" and "The Seventh Seal" this is a parvum opus indeed. It seems to me that Bergman is just plain running out of things to say about the boudoir; perhaps now he'll return to metaphysics, this rather different subject in which he certainly is supreme.

THE M GLOW

1 oz. gin
1 oz. orange juice
1 1/2 oz. apricot brandy
Shake well with ice and strain.

THE COMPLEAT BREWER

(PART 1)

Ybb, either making it or drinking it has got to be a hobby, or it is too damn much work.

The following gear is required of the compleat brewer. (Except you may eliminate it parity of gag, and keep the family out of the bath tub that long).

Cost Item
$0.00 8-gallon earthenware crock
1.50 beer hydrometer
3.00 2 lbs. coarse hops
4.00 beer copper
1.25 bottle filler (optional)

Ingredients

quetzal corn sugar (alternately regular sugar, not as satisfactory)
1.50 Ib.
1.19 3-oz. bags flavored Blue Ribbon malt
1.90 3-oz. bags flavored Blue Ribbon malt
.65 1 gross bottle caps.

Brewing Note

1) The first 8 gallons cost $16.17, which price speaks for itself as a bargain.
2) Ingredients: The MJ team, without either Marlboro, however, is rich enough for anybody. It takes mighty good judgment to give a man who tastes like a filter cigarette. That's the flavor you get in the famous Marlboro recipe from Richmond, Virginia. You get a lot to like.
3) The many loves of Thorwald Dockstader

When Thorwald Dockstader—sophomore, epicure, and sportsman—first took up smoking, he did not simply choose the first brand of cigarettes that came to hand. He did not choose any sophomore, epicure, and sportsman would do: he sampled several brands until he found the very best—a mild, rich, flavorful cigarette—one that shimmered with a pale, unearthly beauty. Trippingly, she walked with Thorwald upon the beach and sat with him behind a windward dune and listened to a cockel shell and sighed wearily and took out a little gold pendent and a little momento notebook and wrote a little poem:

"... the night will open the doors, I will be a dreamer, I will feel the sea once more, the sun once more, the night and the wind...

Thorwald's second date was with a physical education major.

"I did not simply select the first one who came along..."

© 1962 Steve Schwarz
Play By Tech Prof Based On Classic
BY AL GREEN
Perhaps the first case on record of a man being shunned by his friends for the unpleasant odor which his body exuded was that of Sophocles, the hero of "Antigone". He died of a lung ailment which was caused by his smoking.
Thursday, February 8, 1962
THE CALIFORNIA TECH

Ricketts Leads IH Football; Lloyd, Page Fight For Second

By BOB LIEBEMANN

The second week of the inter-

house football season ended last Monday night in a third place game that consisted of eight games, some close, a few not so close, and

all important. Ricketts, the first week's leader, continued its dominance of the scene with a close 19-12 victory over Fleming (27-13) and a relatively easy win over Lloyd. The battle for the all-important second-place rung in the standings raged on as twin triumphs. Page defeated Dabney and Lloyd recorded the not so close games. Lloyd, Blacker and Fleming. In the loser only to Ricketts, over-

whelmed Ruddock and scored a surprising easy victory over Page (18-21). Dabney, ranted an outside chance for a second-

place tie based on the outcome of its game with Lloyd, man-

aged to eke out a 19-12 victory in a highly inspired Rudnock team. In the other game of the week, the winning defeated Blacker in a game that very well could have gone either way.

Ricketts is First

With only five games remain-

ing to be played, the final stand-

ings of the Houses appears to be

fairly well outlined. Ricketts, of course, will occupy the initial spot that it dominated throughout the season: this pre-

sumes a Ricketts victory over Page which seems relatively as-

sured from past performances. Considering it a foregone con-

clusion that Dabney will whip Blacker, the occupancy of sec-

ond-place depends entirely upon the outcome of the Lloyd-Dab-

ney game. A Lloyd victory could assure it a second place followed in order by Page and Dabney. A Dabney victory, how-

ever, would precipitate a three-

way deadlock for second be-

 tween Lloyd, Page, and Dabney. The scramble to avoid the near-

est positions will continue as Rud-

nock faces both Blacker and Fleming in the final days of the season.

Standing: 2-0-0

Won Lost

Ricketts

Lloyd

Page

Dabney

Fleming

Blacker

Ruddock


Close Conference Race
In Swimming Predicted

By TOM SALLEE

The swimming team is now starting to get into serious pace with their most important first meet with Santa Monica City College on Feb. 23. At pre-

sent, the Swim Team is far too optimistic about the team's prospects and future success despite the presence of eight re-

turning lettermen as well as some excellent s o p h o m o r e talent.

Web Won't Guess

With graduation hurrying the championship seven of 1961, Web sees the conference title as an opportunity to make predictions. Both Oxy and Caltech lineup will be stronger this year owing to excellent sophomore talent and CHM will be the weakest of either of the others. Web has a knack for turning out winning teams, so it is easy to count Tech out of the race, however.

Leading the returning letter-

men is senior Gary Turner who

picked up conference gold me-

als in both the back stroke and breaststroke, Art McCaragt in d i v i n g , Mickey Newton in breaststroke, Edd Stevens and Melv Rudd-

ens for freestyle sprints. Hugh Maynard, Ken Kunen, and Peter Ryan for distance events. War-

ren Pearce in backstroke; Jer-

ry Hearn: Another

look at the season's swimming pool times. The

Dabney Leads

Trophy Race; Fleming Second

Blacker defeated Fleming in basket ball last week in a close 10 point game. It was the third straight victory for Blacker. Fleming scored 45 points and Blacker 52.

House Points

Dabney 15

Fleming 14

Blacker 13

Ricketts 8

Ruddock 4

Page 2

Lloyd 1

Season of Wins in Tennis Seen

By COACH JOHN LAMB

The Caltech varsity team is begin-

ning to work in earnest for its first league match scheduled for Saturday, February 24, at Redlands.

We have an unusually large

number of candidates for the team and have the task of cut-

ting the squad to working size before the season opens.

Among those returning this

year are: Dick Hearn: We hope for his usual reliable game and look for improvement in his serve. Dave Owen: Dave should have a fine year, especially if we can bolster his forehand. Frank Curtis: If "Flashy" Frank can make up his mind to work he could be the key to a winning season. But Gibee Ted had one of the best won-lost records on the team last year. We look for improvement this year. Bob Hoare another "old reliable" who should win a high percent-

age of his matches. Alan Lипне:

With a year of frosh tennis be-

hind him, Alan should improve his won-lost record as he will probably play easier competition.

Pressing these players will be a group strong enough to win from many college teams: Bob Ruddick is a fine doubles play-

er and an improving singles player. Ray Plaut is much im-

proved and the hardest worker on the squad. Roger Leazer was number two frosh last year and a potentially fine double man. Francis Wilson is a fine athlete and good competitor. He will make the double players work for their jobs. Joe Yellin is back after a year's absence and has fine potential. Ed Modof was good as a frosh and scores very well. With his good strokes and needs to steady his game to become a more

outstanding player.

With luck, Tech could finish near the top of the conference. It has a good young team and no one can out hit Blacker and Fleming. Blacker and Fleming must be conceded the best set until someone comes along to beat them.

Tech Matmen

Schedule Two More Matches

Caltech's wrestling team, after a good start to their match against Pomona, has now been organized on a steady basis. Practices are now held each day and two more matches are scheduled for this wrestling season.

Those who are interested in participating in the team are invited to attend an information meeting in room 23 in the gym at 4:00 p.m. on February 9. Experience is not necessary and both graduate and undergraduate students are wel-

come. For those who do join the team and go to practices P.E. credits are given. Those interested cannot get to tech can contact Dick Gebee in Ruddock, Tom Latham in Blacker, or Bob Brown in Marks Graduate House.

Cagers Beat La Verne; Outplayed By Whittier

By RICK WEINGARTEN

The Whittier basketball team

split a pair of games this week,

beating La Verne 72-66 before then losing to Whittier on their own floor 79-33.

Noll Sets Record

Tech showed a strong offen-

sive game against the La Verne five as Noll, who has been red hot lately, came through with a 26 point game. This sets a new record for (get this non-confer-

ence) away games. Also hot was Dick Burgess who had his best game to date and scored 14 points. Tech was behind at the half by five points but caught up in the second half with the clutch foul shooting of Volker Vogt and the first six point play in Tech's history. The six point play needs explanation. Noll scored on a three point play and a technical foul was called at the same time. Bopp converted the technical free throw and Tech took the ball out of bounds. Then a quick pass to Noll set up points five and six and the game was back where it started. This in same ser-

ies of plays Bopper scored several

points in a total of twenty-six points.

Whittier Just Too Much

The Whittier game was, as last week against Caltech, a case of a much better team being on the floor. Although Steve Hayes, who led by fire against Tech, scored only nine points, the rest of the Poet team came through with enough out-

side shooting to riddle the Beaver defense. Dean Gerber showed much improvement over his past few outings and the Beaver shooting was at a re-

spectable average; but the Whittier rebounding was just too much. High point man for the Bears was Noll with thirteen points.

High Scorers for Weekend

Noll 26

Burgess 21

Algae

(Continued from page 4)

Chloroella Wins

The algalists are agreed on which of the more than 17,000 varieties of algae might be the most valuable for food or fertilizer. It is a strain of Chloroella, which is favored in the algae race for space, weight and limited water pro-

duction, is able to produce its own weight in food every day. The growth, the more the oxygen pro-

duction... The particular strain grows best in a temperature of 162 degrees Fahrenheit, which is a higher optimum temperature than for most varieties, the biol-

ogist said, pointing out that this is an advantage because a major problem in spacecraft is getting rid of excess heat. Plants functioning best under higher temperatures require less air conditioning.

Space Garden

Dr. Ketellapper estimated that a "space garden" of about five to six varieties of algae would be sufficient to supply enough oxygen for each astronaut. The algae would be grown in water-

filled transparent tanks a few inches high and would be ex-

posed to sunlight through a heavy glass or plastic porthole.

(Tapar Printed)

The back cloth prints of the Hawaiian Islands inspired us to design a new collection of shirts completely different in coloring and pattern. We are sure you will want to add one or more of these fine shirts to your casual wardrobe. Tailored so well it looks personalized. Button-down with hidden buttons. Long sleeve $5.00 Short sleeve $4.00
AUF

(Continued from page 2) may expect a rather vigorous regime, not entirely to our liking. Such a regime will, of course, bring with it a certain amount of turbulence and conflict. The present regime will probably be a harsh, self-reliant, secular socialist one, perhaps with a group of semi-independent chromium mines. An even worse situation would be to have a group of "semi-independent" chromium mines not afraid to take drastic action to achieve their goals.

Ideally, independence will be preceded by some kind of transition period, probably involving massive emigration of Europeans to metropolitan France. In the light of recent intercommunal warfare, Gallagher believes that as long as a proportion of the Europeans as eighty percent might emigrate, no Tea Dance is as terrible as the present chaos in Algeria has been—characterized by hideous tortures, lynchings, and brutality, and, over a million killed or missing—an even worse situation could develop if the French Army were to be immediately removed from Algeria. The resulting de facto government would be more likely to lead to the Tea Dance like the Frosh Tea Dance.

But in the unlikely event that the European community in Algeria can be convinced that it can live without Europe, the Arab World, and the United States, it seems to be an eventuality that is not too much to hope for, but...

"Prospero: The rarer action is in virtue than in vengeance. My charms I'll break, their sense I'll restore, and they shall be themselves."

Schedule

Gallagher's schedule for the reminder of his stay on campus follows:

At noon today he will attend the Graduate Sack Lunch in the "B" Lounge. This evening he will speak at an Athenaeum lecture on "North Africa 1962."

Friday, February 9, he will speak to Professor Gilbert's 8 and 11 a.m. Es. 100 classes in 191 Dalby, winding up the day with dinner at the home of Mrs. Thomas F. Brady.

Saturday, February 10, Gallagher will dine at the home of Mr. and Mrs. Harold Gertmenian, rounding out the weekend with a talk Sunday to the Humanities Faculty Seminar, and, following that, appear at the Upperclass Dining Club in Chandler.

Tuesday, February 13, Gallagher will speak to the H 4 class at 11 a.m. on "Algeria, The Arab World, and France." After appearing at 3:30 p.m. at Westridge School Current Events Class, he will return to Tech, and at 7:30 p.m. attend Dr. Munger's H 12 class.

Wednesday, February 14, Gallagher's last day on campus, he will lunch with the Astronomy Club in 151 Arms and probably sit in on the 2 p.m. Technical Cooperation seminar. Wednesday evening he is scheduled to dine at the home of Dr. and Mrs. Charles Crede. Next week the report on the Gallagher interview will continue with a discussion of pan-Arabism and the United Arab Republic (a grand-lio plan for an Arab state, now including only Egypt).

Moon Craters Steeper Than Expected

The first man on the moon may find that its surface is much rougher than heretofore supposed, Caltech's lunar research team predicts. Using new shadow-study techniques, the group has found unexpectedly steep walls in lunar craters and mountains.

The group also has estimated that a sizable part of the moon—half of one per cent of its surface—is always in shadow, and that most of this permanently shaded area is near the poles. These areas may serve as "cold traps" that would collect and retain volatile substances, such as water vapor, released by chemical action during the moon's evolution, the team said.

The finding of steep slopes on lunar mountains and craters contradicts recent reports that there appear to be no steep walls or cliffs on the moon and no slopes of more than 10 per cent inclination.

The Caltech team, whose work is supported by the National Aeronautics and Space Administration, includes Dr. Harrison Brown, professor of geochronology; Dr. Bruce Murray, research fellow in space science, and Howard Pohn, research assistant. They selected parts of the moon's north, south, and equatorial regions for study.

They found that the maximum slope of the mountain Piton was more than 34 degrees and that of the crater Mouton exceeded 37 degrees. These slopes are considered unusually steep, even on earth. Observing a rugged area in the region of the crater Angellodon, the group found that the average gradient of slopes in the roughest one per cent—250 square miles—of it was greater than 37 per cent. One might expect the moon to be rugged. There are no rains and no atmosphere to disturb its landscape.

However, Dr. Murray said that the battered appearance of the moon's surface, which may indicate "erosion" of some kind. It may be caused, he explained, by fine dust, meteorites and even protons (the nuclei of atoms) "raining" onto the moon's surface from space.

Indications are that the moon is covered with a layer of dust at least a fraction of an inch thick. This is determined by measuring how quickly the temperature drops when a shadow reaches a given area. The lunar temperature ranges from about 250 degrees Fahrenheit in sunlight to minus 240 degrees in the shadows.

The lunar team's studies were made by measuring shadows of craters and mountains in relation to the angle of the sun, and to the changing patterns of the shadows. Most of the studies were made from the excellent lunar photographs taken through the 100-inch telescope at Mt. Wilson Observatory, by the late Francis G. Pease between 1910 and 1925. These pictures were supplemented by other photographs and the findings were checked photometrically with the 60-inch telescope at Mt. Wilson. Photographs taken through scientific research and reinforcing Ford's leadership through scientific research and engineering.

perpetual motion?

No! But scientists and engineers at Ford's research and scientific labs do deal in perpetual notions—and they have more than a few about what might be commonplace in the future, some of them just as startling.

Studies at Ford involving new energy sources and improved materials may help bring jet-propelled cars with gyro stabilizers... automatic driving controls... flying automobiles and wheelless vehicles that glide on a cushion of air... vehicles propelled by atomic energy... plastics with the strength of conventional metals... adhesives that replace welding... radar and other electronic controls to assist, or replace the driver in many situations.

Basic studies in these and other fields are just part of a continuing program of progress aimed at reinforcing Ford's leadership through scientific research and engineering.
LITTLE MAN ON CAMPUS by Dick Bibler

"I'VE WAITED FIVE YEARS FOR SOMEONE TO ASK ME THAT QUESTION."

Thursday, February 8, 1962

Grad Dean To Interview

Students interested in graduate study in business administration are invited to talk with Harold R. Metcalf, Dean of Students in the Graduate School of Business of the University of Chicago on Tuesday, February 13.

Dean Metcalf will be on campus from 9:30 a.m. until 1 p.m. to discuss graduate programs of study leading to the M.B.A. and Ph.D. degrees at the University of Chicago. He will also explain the scholarship program and career opportunities in informal interviews arranged by Dean Eaton.

Regardless of their undergraduate major, students who expect to receive the bachelor's degree or its equivalent are eligible to apply for admission to the School.

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555 S. Lake SY 2-3156
Breakfast Lunch Dinner

Tech Has Two Peaks Named

BY BOB GREENWALD

Another chapter in the heritage of Caltech has recently come to life with the unearthing of important historical data concerning an ignominious mound of real estate, 9138 feet high, located in the San Gabriel Mountains and known as Throop Peak.

It appears that in the early 1900's there existed a rugged hiking trail from Azusa up the San Gabriel Canyon to Rincen, Coldbrook, and Crystal Lake. Someplace out in the wilderness, the hardy adventurer is faced with the choice of two trails: one west to Islip and one east to Hawkins and to Throop peak, the second highest peak in the ridge dominated by Baden Powell Peak (easily located on any map of the area, if such exists).

Throop Peak

In 1936, an itinerant mountaineer came across a very old register book atop the mountain which had been there for over 30 years. It appears that about 1901 or 1903, a group of our hardy predecessors from Throop College climbed the peak, made a sketch of the mountain in their notebooks, wrote the immortalizing words, "This is Throop Peak, not the mountain to the West," and signed their names.

Subsequent climbers in the intervening years had just about filled up the book, and so it was removed and replaced with a fresh one. The old one supposedly still resides in the historical files of the office of the Forest Supervisor, where it endures as a lasting testament to the vigor and fierce determination that set the precedent for life at Caltech.

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LOCAL

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Thursday, February 8, 1962

LOCAL
Nutritious Algae

(Continued from Page 3)

"The light-catching area must be adjustable to compensate for the changing intensity of sunlight at different distances from the sun because the rate of oxygen production is dependent upon light intensity," the biologist said. "One must filter out the two extremes of the solar spectrum — infrared and ultraviolet light. Ultraviolet increases the rate of mutation and infrared is absorbed only by certain algae.

All the algae cells should be exposed to sunlight, but only part of the time. Dr. Ketellapper said, algae die in full sunlight, diffused light increasing the efficiency of the plants.

Space Gardeners

The astronauts would be required to perform gardening chores. Corps of algae, which grow by dividing, would require daily harvesting to maintain a healthy growth rate. The indigentile cellular walls or shells of the harvested algae could be ruptured and their nutritious interiors either eaten by the astronauts or returned as food for other algae.

Brunt Busted

Liewdman Brunt must think 1962 to be a leap year. Recent dates with sixiewench, ending at local ice milk parlor, found date paying for repost, Brunt finances turned to embarrassing twenty-seven cents. Perhaps dishwashing wouldn't be in order next time.

Nightmare Girls

Toad reports that Scurve uplivwench contest is progressing nicely. Billionsummon-wench is still in first place, though threatened by Onerous-wench. Morbid is still trying to enter contender. Latest reports indicate that last Morbid-wench lowered Lake's purity score by 27. Blind date service is not available.

Snake Stack

Scurrenskaalely had a chance to live up to its name last weekend. Scurrefrosh, waking early, indulged in pre-dawn physical activity — to wit: moving dance floors. Fresh tire of sport when all floors are neatly braced in front of aforesaid alley. Last seen, Beak notices Mad Turk descending sheer wall of alley. Evidently all of alley does not live up to name.

Blush Buried

Floyd Snow party was smashing success. Reports from Bashed Beak indicate that all were seeing white stuff. After weekend, Liewdman Brewed Blush found four feet by fifteen feet by seven feet; pile of white water where spirit-car should have been. Buried treasure hunt strikes red. Frozen Spirit is finally thawed and removed.

Lucy smiles at Owl,

Making of a Bed

Passing frost impressed when he hears Toad say to wench, "How would you like to come over tonight and help glue my bed together?" Follow up by Beak indicates that Toad, creating reciling pad in room, has procured sheets of foam rubber for mattress, which must be laminated. Wench did not show, but Toad reports that bed was nicely glued together — with contact cement.

SUMMER JOBS IN EUROPE

WRITE TO: AMERICAN STUDENT INFORMATION SERVICE, 22 AVE. DE LA LIBERTE, LUXEMBOURG

LENKURT ELECTRIC CO.

LENKURT ELECTRIC CO. is conducting on-campus interviews.

Thursday, Feb. 22

LENKURT ELECTRIC CO. is one of the world's major manufacturers of microwave and high frequency equipment for radars, radio, telephones, radio and television equipment. At our San Carlos facilities on the beautiful San Francisco Peninsula, we are growing rapidly and expanding our facilities and operations. 

LENKURT ELECTRIC CO. is a progressive employer and offers equal opportunity employment. At LENKURT, you can anticipate career development, research and production assignments. Our present openings are in the following fields as celestial mechanics, solid state physics, nuclear and plasma physics, flight sciences, space flight and propulsion.

LENKURT ELECTRIC CO. is one of the aerospace industry's leading companies. In addition to the successful operation of our San Carlos Laboratories, while concentrating on product development.

Our position is considered first in the industry and our equipment has won world-wide recognition for quality and technical refinement.

If you are graduating in June... and are interested in joining our exciting and challenging assignments and increasing your earning power, contact your Placement Office. If you are a junior, contact your Placement Office and arrange for an interview with Don Newton, Engineering Placement Officer.

LENKURT ELECTRIC CO.

1105 County Road
San Carlos, California

We're looking forward to meeting you

We'll be on the campus on the dates listed below, ready to give engineer and science seminars on space-age careers in a dynamic industry. If you are looking for a company offering assignments on programs of unique interest and career potential, you'll be interested in the advantages Boeing can offer you.

Boeing, for instance, is a major contractor on programs such as the Saturn S-1B advanced first stage booster, the Dyna Soar manned space glider, the solid-fuel Minuteman ICBM, and the Onerous defense missile system. Boeing is also the world's foremost designer and builder of jet aircraft, including the eighteen B-52H strategic bomber, the KC-135 tanker, the C-135 cargo jet, and the famous Boeing 707, 720 and 727 jetliners. In addition, Boeing's Vertol Division is one of America's leading builders of helicopters.

Research projects at Boeing are under way in such advanced fields as celestial mechanics, solid state physics, nuclear and plasma physics, flight sciences, space flight and propulsion.

Expanding Boeing programs offer exceptional opportunities to holders of B.S., M.S. and Ph.D. degrees in astronautical, mechanical, civil, electrical-electronic and industrial engineering, and in engineering mechanics, engineering physics as well as in mathematics and physics. At Boeing you'll work in a small group where your individual ability and initiative get plenty of visibility. You'll enjoy many other advantages, including an opportunity to take graduate studies at company expense to help you get ahead faster.

Drop in to your Placement Office and arrange for an interview. We're looking forward to meeting you.

Wednesday through Friday — February 14, 15 and 16

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